

# INTERNATIONAL SEARCH REPORT

International Application No.

PCT/EP2004/010732

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 D06B11/00 B41J11/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 D06B B41J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 120 560 A (S.C. MILLER ET AL) 19 September 2000 (2000-09-19)  column 3, line 32 - line 64 column 4, line 12 - line 50 -----	1,7, 9-12,18, 20,23,24
X	US 2003/081094 A1 (M.A. VAN VEEN; J.E. DORMAN) 1 May 2003 (2003-05-01)  paragraphs '0002!, '0016! - '0018!, '0030!, '0034!, '0037! - '0039!, '0049! - '0054!  ----- -/-	1,7,8, 10-14, 18,20, 23,24

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

27 January 2005

Date of mailing of the international search report

07/02/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Goodall, C

BEST AVAILABLE COPY

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/010732

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 580 304 A (D.L. OTTING; B.J. OTTING) 8 April 1986 (1986-04-08)  column 3, line 4 - column 4, line 18 -----	1,7, 10-12, 18,20, 23,24
A	GB 2 187 419 A (DAWSON ELLIS LTD.) 9 September 1987 (1987-09-09)  page 1, line 104 - page 2, line 12 page 2, line 61 - line 72 page 2, line 91 - line 95 page 3, line 32 - line 81 page 3, line 95 - page 4, line 6 -----	1,7,10, 12-14, 18-20, 23,24
A	US 4 791 434 A (L.J. WILLS) 13 December 1988 (1988-12-13) claim 1; figure 4 -----	5
A	US 4 501 038 A (B.J. OTTING) 26 February 1985 (1985-02-26) -----	

BEST AVAILABLE COPY

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/010732

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6120560	A	19-09-2000	NONE	
US 2003081094	A1	01-05-2003	NONE	
US 4580304	A	08-04-1986	BE 902399 A1 GB 2158773 A ,B BE 901864 A1 GB 2154907 A US 4578836 A	02-09-1985 20-11-1985 01-07-1985 18-09-1985 01-04-1986
GB 2187419	A	09-09-1987	EP 0306568 A1	15-03-1989
US 4791434	A	13-12-1988	AT 54103 T WO 8602959 A1 DE 3578405 D1 EP 0202268 A1 HU 40474 A2 JP 62501301 T	15-07-1990 22-05-1986 02-08-1990 26-11-1986 28-12-1986 21-05-1987
US 4501038	A	26-02-1985	US 4485508 A	04-12-1984

BEST AVAILABLE COPY